

## CONTRACT FIELD CHANGE FORM

<b>Project Name</b> <b>Falcon Refinery Superfund Site</b> <b>RI/FS</b>	<b>Document Name</b> <b>Field Change Form No. 01</b>	<b>Task Order No:</b> <b>0088-RICO-06MC</b>
<b>Contract No.</b> <b>EP-W-06-004</b>		<b>Date</b> <b>13 June 2013</b>

### Scope of Work for Field Change Form:

This field change form (FCF) seeks U.S. Environmental Protection Agency (EPA) authorization to change the scope of Task 1 in the EPA-approved Work Plan (Rev 01), dated 24 April 2012, as follows:

- EA will prepare addendums to the project plans when subsequent data or approaches dictate. EA will prepare addendums to the Field Sampling Plan and Quality Assurance Project Plan to reflect the changes in the sampling activities discussed below.
- Under the Project Initiation and Support task, EA will build a database of the previous potentially responsible party (PRP) data so it can be better managed and incorporated into the Phase II data.

This FCF seeks EPA authorization to change the scope of Task 3 in the EPA-approved Work Plan (Rev 01), dated 24 April 2012, as follows:

- EA estimated installation of up to 15 permanent ground water monitor wells. Based on an evaluation of the previous PRP data and as discussed in the 2 May 2013 technical exchange meeting outlined below, EA estimates that an additional 2 permanent ground water monitor wells will be required to delineate potential source areas and extent of ground water contamination.
- EA estimated ground water samples would be collected from 15 permanent and 10 temporary ground water monitor wells. Since 2 additional permanent monitor wells will be installed, EA estimates that ground water samples will be collected from 17 permanent and 10 temporary monitor wells.
- EA stated that up to 25 ground water samples, 210 surface and subsurface soil samples, 40 surface water samples and 30 sediment samples would be collected. EA stated that approximately 20 percent of these samples will be analyzed for pesticides/herbicides and polychlorinated biphenyls (PCBs). Based on an evaluation of the previous PRP data and as discussed in the 2 May 2013 technical exchange meeting these analyses are not needed. This reduces the analytical testing for pesticides/herbicides and PCBs by 13 water samples (5 ground water and 8 surface water) and 54 solid samples (42 surface/subsurface soil and 12 sediment).
- EA stated that background surface water and sediment samples will be analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals. Based on an evaluation of the previous PRP data and as discussed in the 2 May 2013 technical exchange meeting, background samples collected from the wetland areas and intra-coastal waterway will be analyzed for polycyclic aromatic hydrocarbons (PAHs) and metals. Background samples collected from all other areas will be analyzed for metals only. This reduces the analytical testing for VOCs by 30 water (10 ground water and 20 surface water) and 30 solid (10 soil and 20 sediment), and SVOCs by 10 ground water and 10 soil. It also changes the analytical from SVOCs to a partial list of SVOCs (PAHs only) with 20 surface water and 20 sediment samples.
- Two additional analyses are needed to delineate potential sources and extent of impacts at the site. Up to 2 surface soil samples collected during the installation of the monitor wells in AOC 3 will be analyzed for tributyltin. Sediment samples collected from AOC 5 will be analyzed for Simultaneously Extracted Metals (SEM)/Acid Volatile Sulfide (AVS). This increases the analytical testing for tributyltin by 2 soil samples and SEM/AVS by 10 sediment samples.

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**Summary of Changes:**




- Build a database of PRP generated data.
- Add 2 permanent monitor wells.
- Increase ground water samples by 2 to cover additional wells.
- Revise analytical testing as follows:
  - Decrease pesticides/herbicides and PCB analyses by 13 water and 54 solid samples,
  - Decrease VOC analysis by 30 water and 30 solid samples,
  - Decrease SVOC analysis by 10 water and 10 solid samples,
  - Change SVOC analysis to partial list SVOC (PAHs only) for 20 water and 20 solid samples,
  - Increase tributyltin analysis by 2 solid samples, and
  - Increase SEM/AVS analysis by 10 solid samples.

**Reason for Action:**

The previous scope of the sampling for the project was based on the initial review of the documents prepared by the PRP consultants. EA and EPA have further evaluated the documents and identified concerns with the some of the previous work performed by the PRPs and approaches being taken by them. A technical exchange meeting between EPA and EA was held on 2 May 2013 to discuss the PRP data and future needs for the project. EPA and EA technical staff and risk assessors reviewed the PRP data and identified data gaps. It was determined that changes to the initially planned sampling activities needed to occur in order to collect the most defensible data in a cost-effective manner.

**The costs for the database development and additional ground water monitor wells and sampling are offset by the cost reduction from the revised analytical needs. As a result, FCF No. 1 requires no additional Task Order funding. Task Order 88 will remain unchanged at \$500,000 funded of an approved budget of \$1,236,965. The current period-of-performance remains unchanged at 28 May 2014.**

<b>COST DATA</b>				
<b>Item Description</b> (attach specifications if necessary)	<b>Estimated Quantity</b>	<b>Unit</b>	<b>Unit Rate</b>	<b>Line Item Total</b>
.	Not applicable	Not applicable	\$0	\$0
<b>Subtotal</b>				<b>\$0</b>
<b>Original Reserve Funding</b>				<b>Not applicable</b>
<b>Subtotal for this Field Change Form</b>				<b>\$0</b>
<b>Plus total for all previously submitted Field Change Forms</b>				<b>\$0</b>
<b>Balance of Original Reserve Funding (upon approval of field change form)</b>				<b>Not applicable</b>
<b>Schedule Impact (Calendar Days): Day by day adjustment dependent upon receipt of comments</b>				
<b>SIGNATURES</b>				

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<div style="display: flex; justify-content: space-around; align-items: flex-end; padding: 10px;"> <div style="text-align: center;">   <hr/> Resident Engineer    <hr/> Date </div> <div style="text-align: center;">   <hr/> Program Manager    <hr/> 13 June 2013  Date </div> <div style="text-align: center;">   <hr/> Project Manager    <hr/> 13 June 2013  Date </div> </div>		